

Mint of the United States at Philadelphia, Pa.,
Machine Shop

SUPERINTENDENT'S OFFICE,

Hon. Daniel, M. Fox.

Superintendent

February 23rd

1886

Dear Sir.

The drawing herewith respectfully submitted, relates to an improvement in the chasers of the Kent Amalgamating Machine,

The improvement consists of the introduction of a series of Anti friction rolls as shown at A, and B, in the drawing,

The rolls at A, are intended to prevent the grinding away of the axle C, and the inside bearing of the Chaser, as is the case in the present arrangement;

The rolls A, revolving between the axle C, and the inside bearing of the Chaser, will stop the abrasion of the metal caused by the Chaser revolving around the fixed axle C.

The rolls as shown at B, are designed to prevent the wear of the Chaser against the collar D, by the centrifugal force generated by

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The rotation of the chasers, and axle in the tub.

As it has been customary to use soft iron in the casting of the chasers, it is proposed to provide a chaser having a chilled, or hardened face: in order ^{to} do this the Mint will be obliged to provide the chill, necessary in the casting of such chasers.

Since October 1885 there have been repairs made to the Kent Amalgamating machine, four times, with an expense on account of wages alone of about sixty four dollars.

I have asked Messrs James Mow, and A. Whitney and Sons as to the probable cost of furnishing chilled chasers; The proposal of the former I herewith transmit, together with the verbal proposition from Messrs Whitney & Sons

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to furnish the chasers, together with the dies,
and pattern work for the sum of One hundred
and twenty five dollars, more, or less.

Confident that the alterations as suggested
will prove satisfactory I would respectfully
ask that an order be drawn for one pair
of chasers, and one pair of collar forgings.
The other work necessary, such as furnishing the
friction rolls, fitting &c will be done here.

Respectfully,

Sam James
Journ and
Mach Shop

NARA RG104, Entry 1, Box 138

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Machine Shop
February 23, 1886

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The improvement consists of the introduction of a series of Anti friction rolls as shown at A. and B. in the drawing.

The rolls at A, are intended to prevent the grinding away of the Axle C, and the inside bearing of the chaser, as is the case in the present arrangement; The Rolls A, revolving between the Axle C. and the inside bearing of the chaser, with stop the abrasion of the metal caused by the chaser revolving around the fixed Axle C.

The rolls as shown at B. are designed to prevent the wear of the chaser against the collar D., by the centrifugal force generated by the rotation of the chasers, and axle in the tub.

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Respectfully,
Saml. James
Foreman
Mch. Shop